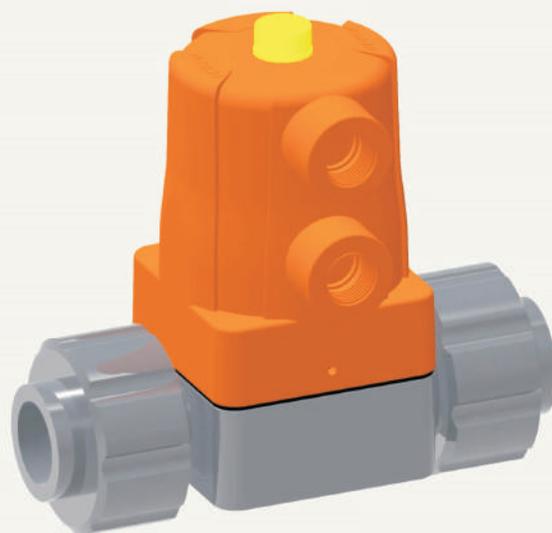


氣動隔膜閥 MV300

高性能 低成本



KOSCN Control Valves MV300 全塑隔膜閥為緊湊的一體式氣動執行器結構，獨特的鴨嘴流道設計確保最佳的流通能力。在耐腐蝕的前提下，我們提供多樣化材質的選配以保證高性價比的應用。

方便操作和維護

- * 一體化緊湊設計確保在有限的空間安裝
- * 全塑的外觀結構，無外露金屬件和螺栓，美觀耐腐蝕
- * 膜片內嵌設計，使之受力勻稱，延長壽命
- * 優越的潤滑性能，免維護
- * G 螺紋雙由令，和國際市場閥門保持一致安裝長度
- * 集成可視位置反饋，且易於觀察
- * 激光刻碼，長久使用後標誌清晰保證

高安全性能

- * 閥體和氣動執行器過壓餘量設計，保證安全性應用
- * 多種材質可選，可以耐受高溫 and 腐蝕
- * 優化的曲徑可以確保閥門在高流速應用時的有效閉合
- * 膜片止擋採用耐高溫設計

高靈活性

- * 執行機構可選 NC、NO、DA
- * 膜片 EPDM、FPM、PTFE，選用於水、酸和鹼性介質
- * 閥體 PVC-U、CPVC、PP-H、PVDF、V2A1,4571
- * 接口標準有公制、美標、日標
- * 高質量和高可靠性，可實現高操作次數

最佳流通性能

- * 良好的線性流體特性可以實現簡單控制
- * 平滑過度的鴨嘴流道，實現比傳統隔膜閥的雙倍流通能力
- * 適合含有少量顆粒和固體的介質

應用

- * 加藥
- * 電子半導體
- * 光伏
- * 集成電路板
- * 水處理
- * 離子回收

技術特性

尺寸	DN 15 (1/2")
壓力等級	PN 6
閥體	PVC-U/CPVC (聚氯乙稀) PP-H (均聚聚丙烯) PVDF (聚偏二氟乙稀) V2A1,4571 (不鏽鋼 316)
膜片	EPDM EPDM-PER FPM FPM-70 PTFE 覆合 EPDM
殼體	PP-GF 橙黃
連接	閥體為雙由令 G 螺紋通配標準 PVC-U/CPVC 襯套為插入粘接 PP-H/PVDF 襯套為插入和對口熔接 V2A1,4571 為焊接閥端
安裝	閥體含有 G 螺紋以用於可靠安裝
流量	流通能力比市場傳統堰壩式閥門更大
標準	DIN 8063 ISO 9393

流通能力

以下流量基於 20°C 清水介質 1bar 壓差時數據

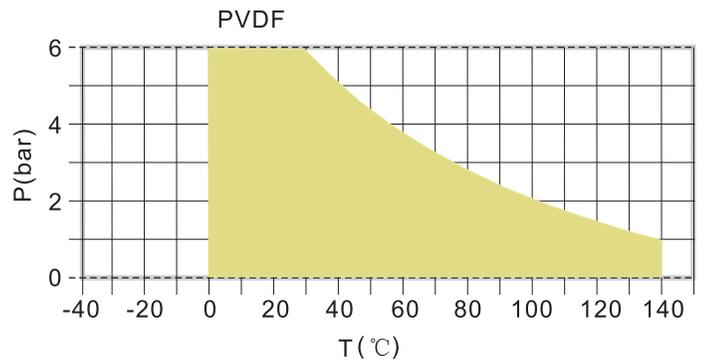
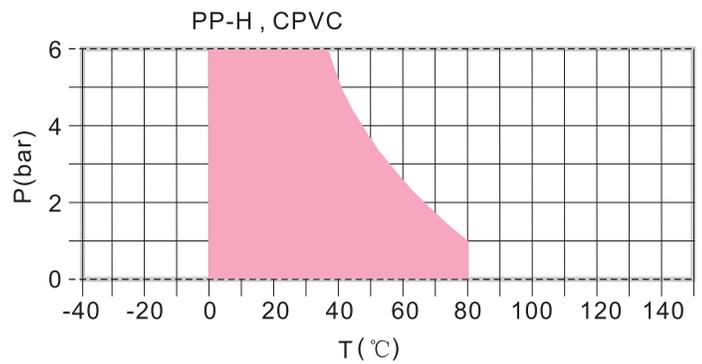
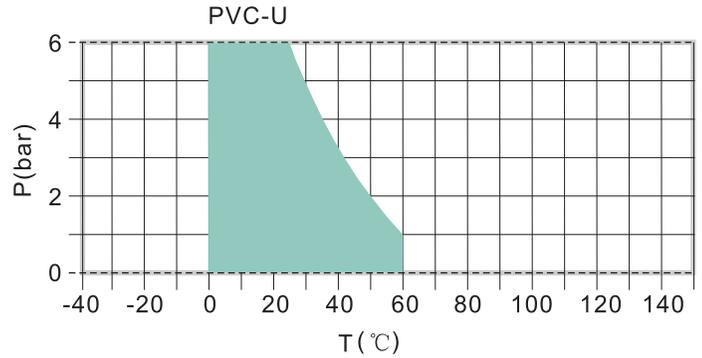
材質	DN	d	inch	Kv 100	
				l/min	m ³ /h
PVC-U	15	20	1/2"	125	7,5
CPVC	15	20	1/2"	125	7,5
PP-H	15	20	1/2"	125	7,5
PVDF	15	20	1/2"	125	7,5
V2A1,4571	15	20	1/2"	90	5,4

$$Cv = kv \times 0,07 ; Fv = kv \times 0,0585$$

$$Kv (l/min) ; Cv (gal/min) US ; Fv (gal/min) GB$$

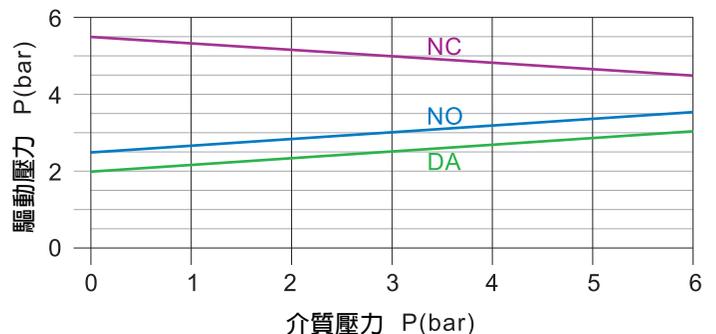
壓力/溫度曲線

以下溫度曲線基於清水類介質及25年壽命



啓閉驅動壓力

EPDM, FPM 隔膜驅動壓力空氣的輸入值，最大限制 6 bar



Body PVC-U Actuator variant NC



Size	d (mm)	20		
	DN (mm)	15		
	DN (inch)	1/2		
Pressure range	PN (bar)	6		
		Diaphragm	Sealing	Ident No.
Connection	PVC-U	EPDM	EPDM	300.012.1020
	Socket DIN	EPDM-PER	EPDM	300.022.1020
		FPM	FPM	300.032.1020
		FPM-70	FPM	300.042.1020
		PTFE	FPM	300.062.1020
	PVC-U	EPDM	EPDM	300.012.1220
	Socket JIS	EPDM-PER	EPDM	300.022.1220
		FPM	FPM	300.032.1220
		FPM-70	FPM	300.042.1220
		PTFE	FPM	300.062.1220
	PVC-U	EPDM	EPDM	300.012.1420
	Socket ANSI	EPDM-PER	EPDM	300.022.1420
		FPM	FPM	300.032.1420
		FPM-70	FPM	300.042.1420
		PTFE	FPM	300.062.1420

Body PVC-U Actuator variant NO



Size	d (mm)	20		
	DN (mm)	15		
	DN (inch)	1/2		
Pressure range	PN (bar)	6		
		Diaphragm	Sealing	Ident No.
Connection	PVC-U	EPDM	EPDM	300.014.1020
	Socket DIN	EPDM-PER	EPDM	300.024.1020
		FPM	FPM	300.034.1020
		FPM-70	FPM	300.044.1020
		PTFE	FPM	300.064.1020
	PVC-U	EPDM	EPDM	300.014.1220
	Socket JIS	EPDM-PER	EPDM	300.024.1220
		FPM	FPM	300.034.1220
		FPM-70	FPM	300.044.1220
		PTFE	FPM	300.064.1220
	PVC-U	EPDM	EPDM	300.014.1420
	Socket ANSI	EPDM-PER	EPDM	300.024.1420
		FPM	FPM	300.034.1420
		FPM-70	FPM	300.044.1420
		PTFE	FPM	300.064.1420

Body PVC-U Actuator variant DA



<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	PVC-U	EPDM	EPDM	300.016.1020	
		Socket DIN	EPDM-PER	EPDM	300.026.1020
			FPM	FPM	300.036.1020
			FPM-70	FPM	300.046.1020
			PTFE	FPM	300.066.1020
	PVC-U	EPDM	EPDM	300.016.1220	
		Socket JIS	EPDM-PER	EPDM	300.026.1220
			FPM	FPM	300.036.1220
			FPM-70	FPM	300.046.1220
			PTFE	FPM	300.066.1220
	PVC-U	EPDM	EPDM	300.016.1420	
		Socket ANSI	EPDM-PER	EPDM	300.026.1420
			FPM	FPM	300.036.1420
			FPM-70	FPM	300.046.1420
			PTFE	FPM	300.066.1420

Body CPVC Actuator variant NC



<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	CPVC	EPDM	EPDM	300.212.1020	
		Socket DIN	EPDM-PER	EPDM	300.222.1020
			FPM	FPM	300.232.1020
			FPM-70	FPM	300.242.1020
			PTFE	FPM	300.262.1020
	CPVC	EPDM	EPDM	300.212.1220	
		Socket JIS	EPDM-PER	EPDM	300.222.1220
			FPM	FPM	300.232.1220
			FPM-70	FPM	300.242.1220
			PTFE	FPM	300.262.1220
	CPVC	EPDM	EPDM	300.212.1420	
		Socket ANSI	EPDM-PER	EPDM	300.222.1420
			FPM	FPM	300.232.1420
			FPM-70	FPM	300.242.1420
			PTFE	FPM	300.262.1420

Body CPVC Actuator variant NO



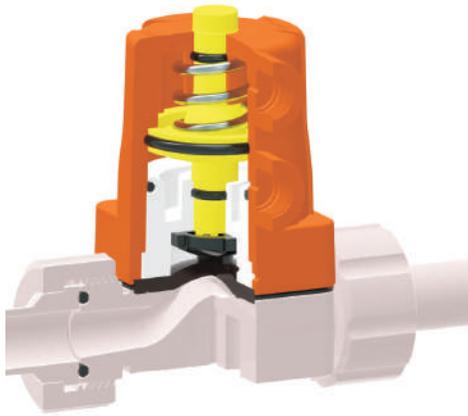
<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	CPVC	EPDM	EPDM	300.214.1020	
		Socket DIN	EPDM-PER	EPDM	300.224.1020
			FPM	FPM	300.234.1020
			FPM-70	FPM	300.244.1020
			PTFE	FPM	300.264.1020
	CPVC	EPDM	EPDM	300.214.1220	
		Socket JIS	EPDM-PER	EPDM	300.224.1220
			FPM	FPM	300.234.1220
			FPM-70	FPM	300.244.1220
			PTFE	FPM	300.264.1220
	CPVC	EPDM	EPDM	300.214.1420	
		Socket ANSI	EPDM-PER	EPDM	300.224.1420
			FPM	FPM	300.234.1420
			FPM-70	FPM	300.244.1420
			PTFE	FPM	300.264.1420

Body CPVC Actuator variant DA



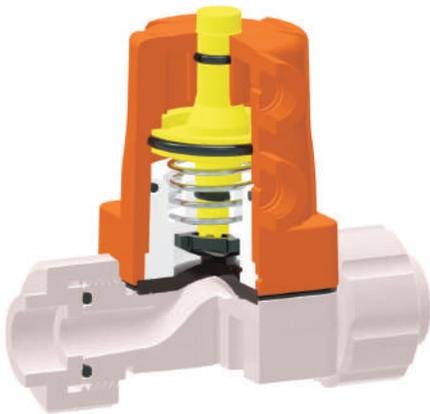
<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	CPVC	EPDM	EPDM	300.216.1020	
		Socket DIN	EPDM-PER	EPDM	300.226.1020
			FPM	FPM	300.236.1020
			FPM-70	FPM	300.246.1020
			PTFE	FPM	300.266.1020
	CPVC	EPDM	EPDM	300.216.1220	
		Socket JIS	EPDM-PER	EPDM	300.226.1220
			FPM	FPM	300.236.1220
			FPM-70	FPM	300.246.1220
			PTFE	FPM	300.266.1220
	CPVC	EPDM	EPDM	300.216.1420	
		Socket ANSI	EPDM-PER	EPDM	300.226.1420
			FPM	FPM	300.236.1420
			FPM-70	FPM	300.246.1420
			PTFE	FPM	300.266.1420

Body PP-H Actuator variant NC



<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	PP-H	EPDM	EPDM	300.412.1020	
	Socket DIN	EPDM-PER	EPDM	300.422.1020	
		FPM	FPM	300.432.1020	
		FPM-70	FPM	300.442.1020	
		PTFE	EPDM	300.452.1020	
		PTFE	FPM	300.462.1020	
	PP-H	EPDM	EPDM	300.412.3020	
		Spigot DIN	EPDM-PER	EPDM	300.422.3020
			FPM	FPM	300.432.3020
			FPM-70	FPM	300.442.3020
		PTFE	EPDM	300.452.3020	
		PTFE	FPM	300.462.3020	

Body PP-H Actuator variant NO



<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	PP-H	EPDM	EPDM	300.414.1020	
	Socket DIN	EPDM-PER	EPDM	300.424.1020	
		FPM	FPM	300.434.1020	
		FPM-70	FPM	300.444.1020	
		PTFE	EPDM	300.454.1020	
		PTFE	FPM	300.464.1020	
	PP-H	EPDM	EPDM	300.414.3020	
		Spigot DIN	EPDM-PER	EPDM	300.424.3020
			FPM	FPM	300.434.3020
			FPM-70	FPM	300.444.3020
		PTFE	EPDM	300.454.3020	
		PTFE	FPM	300.464.3020	

Body PP-H Actuator variant DA



<i>Size</i>	d (mm)	20			
	DN (mm)	15			
	DN (inch)	1/2			
<i>Pressure range</i>	PN (bar)	6			
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>	
<i>Connection</i>	PP-H	EPDM	EPDM	300.416.1020	
	Socket DIN	EPDM-PER	EPDM	300.426.1020	
		FPM	FPM	300.436.1020	
		FPM-70	FPM	300.446.1020	
		PTFE	EPDM	300.456.1020	
	PP-H	Spigot DIN	EPDM	EPDM	300.416.3020
			EPDM-PER	EPDM	300.426.3020
			FPM	FPM	300.436.3020
			FPM-70	FPM	300.446.3020
		PTFE	EPDM	300.456.3020	
			FPM	300.466.3020	
			EPDM	300.456.3020	
FPM			300.466.3020		

Body PVDF Actuator variant NC



<i>Size</i>	d (mm)	20		
	DN (mm)	15		
	DN (inch)	1/2		
<i>Pressure range</i>	PN (bar)	6		
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>
<i>Connection</i>	PVDF	FPM	FPM	300.632.1020
	Socket DIN	FPM-70	FPM	300.642.1020
		PTFE	FPM	300.662.1020
		PVDF	EPDM	EPDM
	Spigot DIN	EPDM-PER	EPDM	300.622.3020
		FPM	FPM	300.632.3020
		FPM-70	FPM	300.642.3020
		PTFE	EPDM	300.652.3020
		PTFE	FPM	300.662.3020

Body PVDF Actuator variant NO



<i>Size</i>	d (mm)	20		
	DN (mm)	15		
	DN (inch)	1/2		
<i>Pressure range</i>	PN (bar)	6		
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>
<i>Connection</i>	PVDF	FPM	FPM	300.634.1020
	Socket DIN	FPM-70	FPM	300.644.1020
		PTFE	FPM	300.664.1020
		PVDF	EPDM	EPDM
	Spigot DIN	EPDM-PER	EPDM	300.624.3020
		FPM	FPM	300.634.3020
		FPM-70	FPM	300.644.3020
		PTFE	EPDM	300.654.3020
		PTFE	FPM	300.664.3020

Body PVDF Actuator variant DA



<i>Size</i>	d (mm)	20		
	DN (mm)	15		
	DN (inch)	1/2		
<i>Pressure range</i>	PN (bar)	6		
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>
<i>Connection</i>	PVDF	FPM	FPM	300.636.1020
	Socket DIN	FPM-70	FPM	300.646.1020
		PTFE	FPM	300.666.1020
		PVDF	EPDM	EPDM
	Spigot DIN	EPDM-PER	EPDM	300.626.3020
		FPM	FPM	300.636.3020
		FPM-70	FPM	300.646.3020
		PTFE	EPDM	300.656.3020
		PTFE	FPM	300.666.3020

Body V2A1,4571 Actuator variant NC



<i>Size</i>	d (mm)	21.3		
	DN (mm)	15		
	DN (inch)	1/2		
<i>Pressure range</i>	PN (bar)	6		
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>
<i>Connection</i>	V2A1,4571	EPDM-PER		300.822.5420
	Spigot SCH-40	FPM-70		300.842.5420
		PTFE		300.872.5420
	V2A1,4571	EPDM-PER		300.822.9620
	Threaded G	FPM-70		300.842.9620
		PTFE		300.872.9620

Body V2A1,4571 Actuator variant NO



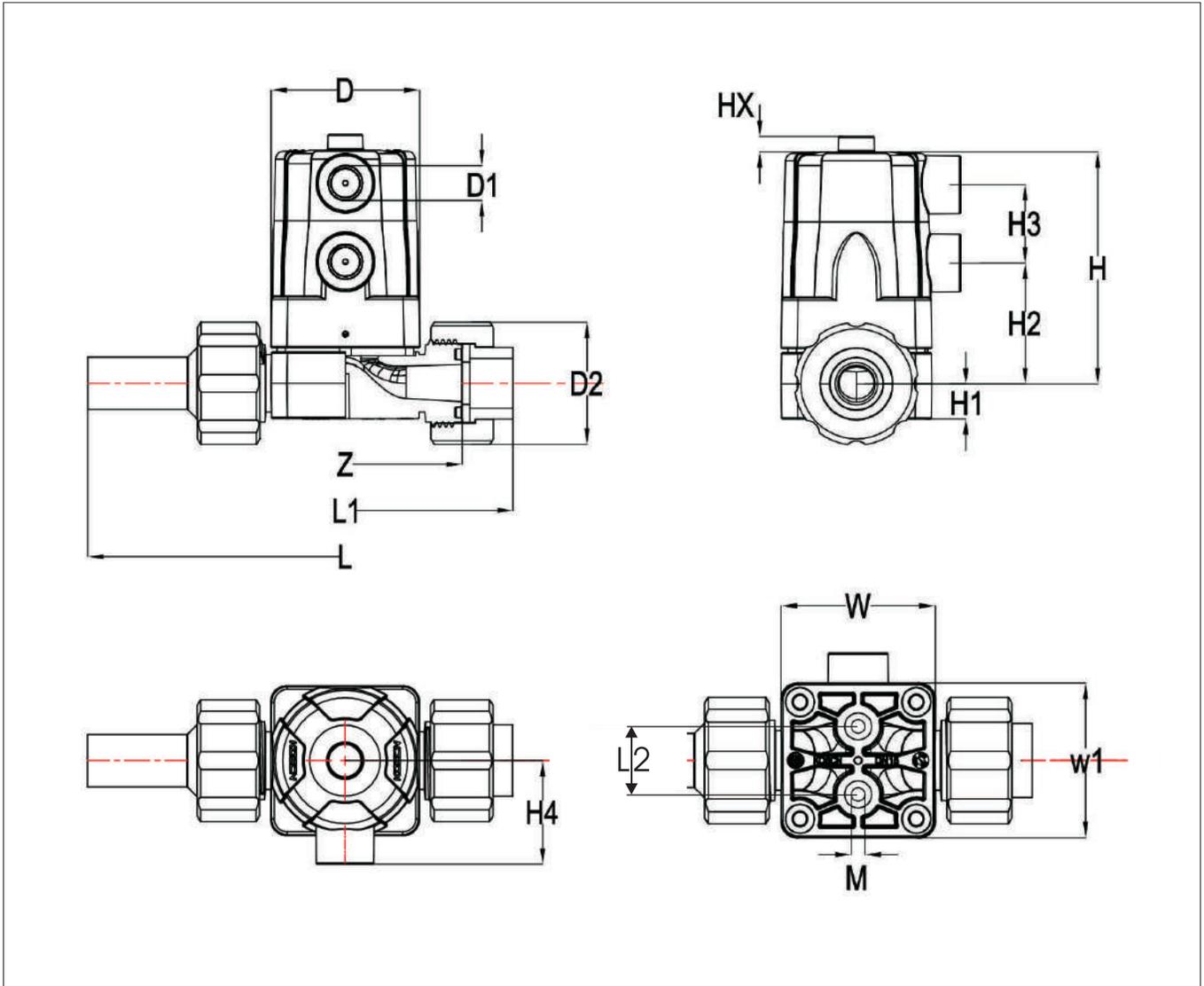
<i>Size</i>	d (mm)	21.3		
	DN (mm)	15		
	DN (inch)	1/2		
<i>Pressure range</i>	PN (bar)	6		
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>
<i>Connection</i>	V2A1,4571	EPDM-PER		300.824.5420
	Spigot SCH-40	FPM-70		300.844.5420
		PTFE		300.874.5420
	V2A1,4571	EPDM-PER		300.824.9620
	Threaded G	FPM-70		300.844.9620
		PTFE		300.874.9620

Body V2A1,4571 Actuator variant DA



<i>Size</i>	d (mm)	21.3		
	DN (mm)	15		
	DN (inch)	1/2		
<i>Pressure range</i>	PN (bar)	6		
		<i>Diaphragm</i>	<i>Sealing</i>	<i>Ident No.</i>
<i>Connection</i>	V2A1,4571	EPDM-PER		300.826.5420
	Spigot SCH-40	FPM-70		300.846.5420
		PTFE		300.876.5420
	V2A1,4571	EPDM-PER		300.826.9620
	Threaded G	FPM-70		300.846.9620
		PTFE		300.876.9620

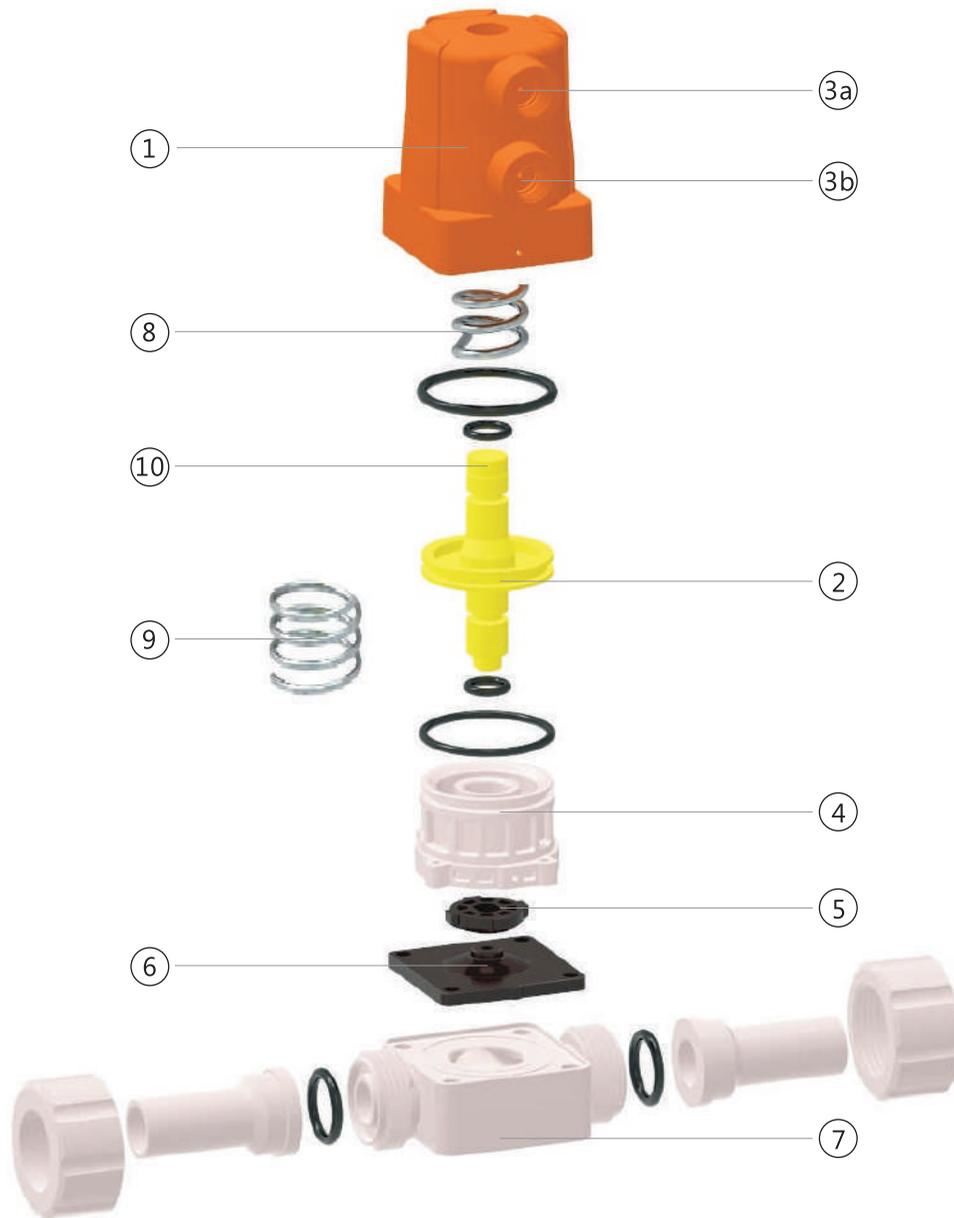
+ 外形尺寸數據



D (mm)	D1_G (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	L1 (mm)	L2 (mm)	M (mm)	Z (mm)	W (mm)	W1 (mm)	Lift = Hx (mm)
57	1/4	46	89	14	46	30	39	198	130	25	8	89	57	57	6

以上尺寸技術數據不具有約束力。它們既不構成明確的特性保證，也不保證永久性不變。將隨著產品的改進或升級而改變。此適用於一般銷售條款。

+ 分解圖



圖號	零件名稱	圖號	零件名稱
1	缸蓋	5	隔膜壓塊
2	活塞	6	隔膜片
3a	NO 進氣嘴	7	閥體
3b	NC 進氣嘴	8	NC 彈簧
3a+3b	DA 進氣嘴	9	NO 彈簧
4	缸蓋支撐塊	10	閥位指示

**contact**
customer center
www.koscn.de



KOSCN